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Subst. Form PTO-1449	Atty. Docket No.: 22727/04109	TECH CENTER 1600/2900	Serial No.: 10/059,964
APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Rikihisa, et al.		Group: 1645
	Filing Date: January 28, 2002		

U.S. PATENT DOCUMENTS

Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
one	AA	5,401,656	March 28, 1995	Dawson			Oct. 30, 1992
one	AB	5,413,931	May 9, 1995	Dawson, et al.			Nov. 5, 1993
one	AC	5,789,176	August 4, 1998	Dawson, et al.			Oct. 3, 1997
one	AD	5,869,335	February 9, 1999	Munderloh, et al.			Aug. 25, 1995
one	AE	6,025,338	February 15, 2000	Barbet, et al.			Oct. 17, 1996

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subcl.	Translation?
one	AF	98/16554	23 April 1998	WO			
	AG						
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OTHER PRIOR ART

one	AK	"Cloning and Characterization of Multigenes Encoding the Immunodominant 30-Kilodalton Major Outer Membrane Proteins of <i>Ehrlichia Canis</i> and Application of the Recombinant Protein for Serodiagnosis" by Ohashi, et al., <i>Journal of Clinical Microbiology</i> , Vol. 36, No. 9, September 1998, pp. 2671-2680.	✓
one	AL	"Immunodominant Major Outer Membrane Protein of <i>Ehrlichia chaffeensis</i> Are Encoded by a Polymorphic Multigene Family" by Ohashi, et al., <i>Infection and Immunity</i> , Vol. 66, No. 1, Jan. 1998, pp. 132-139.	✓
one	AM	Abstract D-79, "Binding of Outer Membrane Proteins of <i>Ehrlichia chaffeensis</i> to DHB2 Cells" by Zhang, et al., 97th General Meeting of the American Society for Microbiology, Miami Beach, Florida, May 4-8, 1997.	✓
one	AN	Abstract D-80, "Immunoprotective 28-kDa outer-membrane protein of <i>Ehrlichia chaffeensis</i> is a member Of multi-sized protein antigen family" by Ohashi, et al., 97th General Meeting of the American Society for Microbiology, Miami Beach, Florida, May 408, 1997.	✓
one	AO	Abstract D-28, "Cloning, Sequencing, and Overexpression of <i>Ehrlichia Canis</i> Immunoreactive Protein Gene Homologous to Members of <i>Ehrlichia Chaffeensis omp-1</i> Gene Family" by Ohashi, et al., 98th General Meeting of the American Society for Microbiology, May 17-2, 1998, Atlanta, Georgia.	
one	AP	Abstract D-29, "Dot Immunoblot Assay for Canine Ehrlichiosis: Using Recombinant Major Protein Antigen of <i>Ehrlichia Canis</i> " by Unver, et al., 98th General Meeting of the American Society for Microbiology, May 17-21, 1998, Atlanta, Georgia.	
one	AQ	GenBank Accession AF078553, October 27, 1998.	
one	AR	GenBank Accession AF078554, October 27, 1998.	
one	AS	GenBank Accession AF078555, October 27, 1998.	
one	AT	GenBank Accession AF021338, February 19, 1998.	

Examiner:

Date Considered: 6-25-02

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<i>no</i>	AK	GenBank Accession U72291, February 19, 1998.
<i>pat</i>	AL	GenBank Accession L01987, March 17, 1994.
<i>pat</i>	AM	GenBank Accession X74250, October 10, 1994.
<i>pat</i>	AN	GenBank Accession U07862, January 5, 1995.
<i>pat</i>	AO	GenBank Accession U36193, August 8, 1996.
<i>pat</i>	AP	GenBank Accession U50830, July 15, 1996.
<i>pat</i>	AQ	GenBank Accession U50831, July 15, 1996.
<i>pat</i>	AR	GenBank Accession U50832, July 15, 1996.
<i>pat</i>	AS	GenBank Accession U50833 July 15, 1996.
<i>pat</i>	AT	GenBank Accession U50834, July 15, 1996.

Examiner:

RP Swartz

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	AK	GenBank Accession U50835, July 15, 1996.
	AL	GenBank Accession AF062761, July 19, 1998.
	AM	GenBank Accession AF068234, June 8, 1998.
	AN	GenBank Accession AF077732, August 13, 1998.
	AO	GenBank Accession AF077733, August 13, 1998.
	AP	GenBank Accession AF077734, August 13, 1998.
	AQ	GenBank Accession AF077735, August 13, 1998.
	AR	GenBank Accession AF082745, October 20, 1998.
	AS	GenBank Accession AF082746, October 20, 1998.
	AT	GenBank Accession AF082747, October 20, 1998.
Examiner:		Date Considered: 6-25-03

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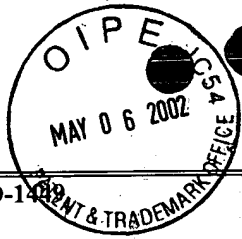
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ms	AK	GenBank Accession AF082748, October 20, 1998.
ms	AL	GenBank Accession AF082749, October 20, 1998.
ms	AM	GenBank Accession AF082750, October 20, 1998.
ms	AN	"Molecular Characterization of a 28 kDa Surface Antigen Family of the Tribe Ehrlichiae" by G. Reddy, et al., <u>Biochemical and Biophysical Research Communications</u> , Vol. 247, No. 3, 1998, pp. 636-643. ✓
ms	AO	"Sequence Heterogeneity of the Major Antigen Protein 1 Genes from <i>Cowdria ruminantium</i> Isolates from Different Geographical Areas" by G. Reddy, et al., <u>Clinical and Diagnostic Laboratory Immunology</u> , Vol. 3, No. 4, July 1996, pp. 417-422. ✓
ms	AP	"Derivation of the complete <i>msp4</i> gene sequence of <i>Anaplasma marginale</i> without cloning" by Oberle, et al., <u>Gene</u> , Vol. 136, December 1993, pp. 291-294.
ms	AQ	"Molecular Cloning, Sequence Analysis and Expression of the Gene Encoding the Immunodominant 32-Kilodalton Protein of <i>Cowdria ruminantium</i> " by van Vliet, et al., <u>Infection and Immunity</u> , vol. 62, No. 4, April 1994, pp. 1451-1456.
ms	AR	"Sequence and characterization of an Ehrlichia chaffeensis gene encoding 314 amino acids highly homologous to the NAD A enzyme" by Yu, et al., <u>FEMS Microbiol Lett</u> , September 1, 1997, 154 (1), pp. 53-58. ABSTRACT ONLY ✓
ms	AS	"E: Enzyme-Linked Immunosorbent Assay and Western Immunoblot Analyses of Ehrlichia Canis and a Canine Granulocytic Ehrlichia Infection" by Rikihisa, et al., <u>Journal of Clinical Microbiology</u> , Vol. 20, No. 2, January 1992, pp. 143-148. ABSTRACT ONLY ✓
ms	AT	"Serological evidence for antigenic relationships between Ehrlichia canis and Cowdria ruminantium" by Kelly, et al., <u>Res Vet Sci</u> , 56 (2), March 1994, pp. 170-174. ABSTRACT ONLY ✓
Examiner: <i>ms</i>		Date Considered: 6-25-03

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ms	AK	"The interface between research and the diagnoses of an emerging tick-borne disease, human ehrlichiosis due to Ehrlichia chaffeensis" by Dawson, et al., <u>Archives of Journal of Medicine</u> , Vol. 156, No. 2, January 22, 1996, pp. 137 (6).
ms	AL	"Western Immunoblotting analysis of the antibody responses of patients with human monocytotropic ehrlichiosis to different strains of Ehrlichia chaffeensis and Ehrlichia canis" by Chen, et al., <u>Clin Diagn Lab Immunol</u> , Nov. 1997, 4 (6), pp. 731-735. ABSTRACT ONLY
ms	AM	"Analysis and untrastructural localization of Ehrlichia chaffeensis proteins with monoclonal antibodies" by Chen, et al, <u>The American Journal of Tropical Medicine and Hygiene</u> , 1996, 54 (4) pp. 405-412. ABSTRACT ONLY
ms	AN	"Identification of the antigenic constituents of Ehrlichia chaffeensis" by Chen, et al., <u>Am J Trp Med Hyg</u> Jan 1994, 50 (1) pp. 52-58. ABSTRACT ONLY
ms	AO	"Antigenic characterization of ehrlichiae: protein immunoblotting of Ehrlichia canis, Ehrlichia sennetsu, and Ehrlichia risticii" by Brouqui, et al., <u>J Clin Microbiol</u> , May 1992, 30 (5) pp. 1062-1066. ABSTRACT ONLY
ms	AP	"Serologic diagnosis of human monocytic ehrlichiosis by immunoblot analysis" by Brouqui, et al., <u>Clin Diagn Lab Immunol</u> , November 1994, 1 (6) pp. 645-649. ABSTRACT ONLY
ms	AQ	Abstract D/B-126, "Characterization of p30 Multigene Family of Ehrlichia canis" by Ohashi, et al., Ninety-ninth General Meeting of the American Society for Microbiology, May 30-June 3, 1999, Chicago, Illinois, p. 233.
ms	AR	Abstract D/B-138, "Western and Dot Blotting Analysis of Ehrlichia chaffeensi-IFA Positive and -Negative Human Sera Using Native and Recombinant E. chaffeensis and E. canis Antigen" by Unver, et al., Ninety-ninth General Meeting of the American Society for Microbiology, May 30-June 3, 1999, Chicago, Illinois, p. 236.
ms	AS	"Molecular Cloning of the Gene for a Conserved Major Innumoreactive 28-Kilodalton Protein of Ehrlichia canis: a Potential Serodiagnostic Antigen" by McBride, et al., <u>Clinical and Diagnostic Laboratory Immunology</u> , Vol. 6, No. 3, May 1999, pp. 392-399.
ms	AT	"The map1 Gene of Cowdria ruminantium is a Member of a Multigene Family Containing Both Conserved and Variable Genes" by Sulsona, et al., <u>Biochemical and Biophysical Research Communications</u> , 257, 300-305 (1999).

Examiner: ms

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Subst. Form PTO-1249

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OTHER PRIOR ART

AK	"Comparison of <i>Ehrlichia chaffeensis</i> Recombinant Proteins for Serologic Diagnosis of Human Monocytotropic Ehrlichiosis" by Yu, et al., <u>Journal of Clinical Microbiology</u> , Vol. 37, No. 8, August 1999, p. 2568-2575.
AL	"Genetic Diversity of the 28-Kilodalton Outer Membrane Protein Gene in Human Isolates of <i>Ehrlichia chaffeensis</i> " by Yu, et al., <u>Journal of Clinical Microbiology</u> , Vol. 37, No. 4, April 1999, pp. 1137-1143.
AM	"Molecular characterization of a new 28-kilodalton protein gene and a multigene locus encoding five homologous 28-kilodalton immunodominant outer membrane proteins of <i>Ehrlichia canis</i> " by McBride, et al., <u>Rickettsiae and rickettsial diseases at the turn of the third millennium</u> , D. Raoult, P. Brouqui, eds., Elsevier, Paris, June 1999, pp. 43-47.
AN	"Characterization of the genus-common outer membrane proteins in <i>Ehrlichia</i> " by Yu, et al., <u>Rickettsiae and rickettsial diseases at the turn of the third millennium</u> , D. Raoult, P. Brouqui, eds., Elsevier, Paris, June 1999, pp. 103-107.
AO	GenBank Accession Number AF125279.
AP	GenBank Accession Number AF125278.
AQ	GenBank Accession Number AF125277.
AR	GenBank Accession Number AF125276.
AS	GenBank Accession Number AF125275.
AT	GenBank Accession Number AF125274.

Examiner: *DP Swang*

Date Considered: 6-25-03

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